

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 June 2004 (24.06.2004)

PCT

(10) International Publication Number
WO 2004/054224 A1

(51) International Patent Classification⁷: **H04M 11/04**

SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:

PCT/US2002/039275

(22) International Filing Date: 7 December 2002 (07.12.2002)

(25) Filing Language:

English

(26) Publication Language:

English

(71) Applicant and

(72) Inventor: MOWERY, Richard, A., Jr. [US/US]; 911
Morning Sun Lane, McGregor, TX 76657 (US).

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK,
TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii)) for all designations
- of inventorship (Rule 4.17(iv)) for US only

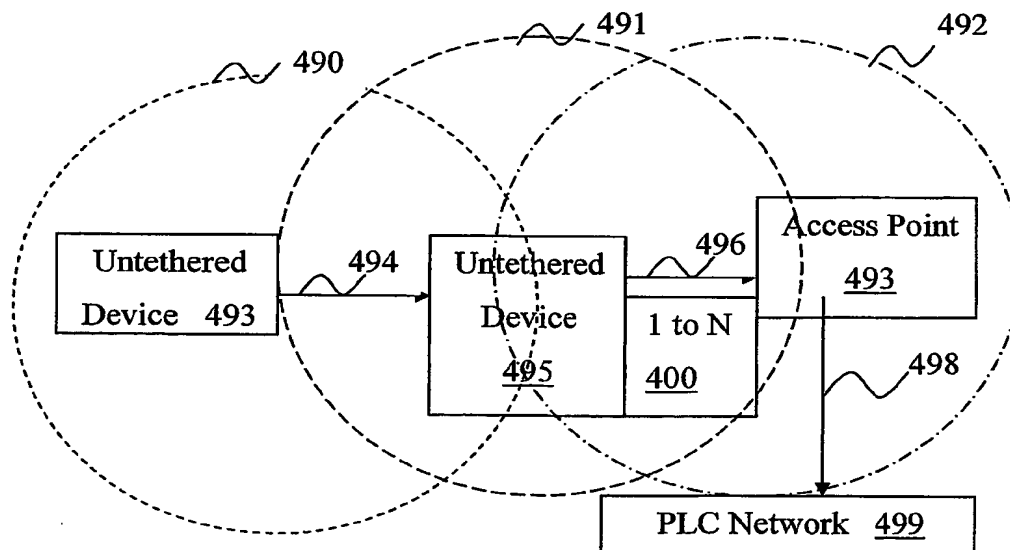
(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,

Published:

- with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: A POWER LINE COMMUNICATION NETWORK HANDOFF



(57) Abstract: This patent relates to the handoff of an untethered device (493) connected to a tethered device (495) communicating on a power line communication (PLC) network (499) to another device communicating on a PLC network or communicating with a conventional communication network or communicated on a mesh communication network. An additional embodiment of the present invention is the bridging (662) of a first communication network (660) over a PLC network to a second communication network (664) and the switching into or out of a PLC network between two communication networks bridged through a device connected to a PLC network (499) such that the first communication network (660) or second communication network (664) disconnects from the PLC network while a third communication network (665) connects to the PLC network (499).